

# PATENT ABSTRACTS OF JAPAN

(11) Publication number : 2002-156447  
 (43) Date of publication of application : 31.05.2002

(51) Int. CI. G01S 13/34

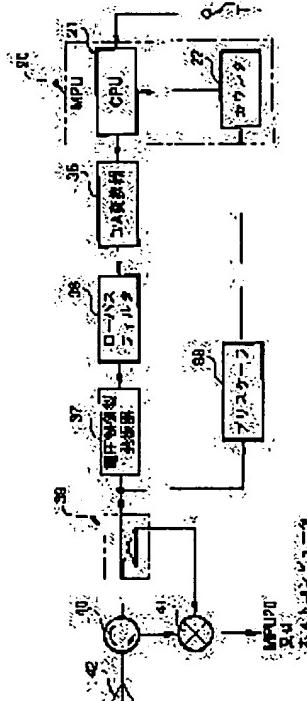
(21) Application number : 2000-352934 (71) Applicant : WIRE DEVICE:KK  
 (22) Date of filing : 20.11.2000 (72) Inventor : NISHIDA KOICHI  
 KAYANO HAYAE

## (54) SWEEP OSCILLATION DEVICE AND FMCW DISTANCE MEASURING INSTRUMENT

### (57) Abstract:

**PROBLEM TO BE SOLVED:** To provide a sweep oscillation device and an FMCW distance measuring instrument which can measure a distance with high precision without being made large-sized.

**SOLUTION:** The sweep oscillation device is equipped with a voltage-controlled oscillator, a frequency measuring means which supplies a stepped-waveform voltage to the voltage-controlled oscillator and measures the current output frequency from the voltage-controlled oscillator, and a control means which calculates an applied voltage for making a sweep speed constant from measured frequencies corresponding to respective stepped-waveform voltages obtained by the frequency measuring means and supplies the applied voltage to the voltage-controlled oscillator, and the FMCW distance measuring instrument is equipped with the sweep device.



### LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]

Copyright (C) ; 1998, 2003 Japan Patent Office

v26

v26

v26